Inter all Application No PCT/GB 03/05262

A. CLASSI IPC 7	FICATION OF SUBJECT MATTER A61K47/34 A61K47/42 A61K48,	/00			
According to	o International Patent Classification (IPC) or to both national classi	ication and IPC			
	SEARCHED				
IPC 7	cumentation searched (classification system followed by classific A61K				
	lion searched other than minimum documentation to the extent tha				
	ata base consulted during the international search (name of data ternal, BIOSIS, CHEM ABS Data, MED!		•		
C. DOCUME	ENTS CONSIDERED TO BE RELEVANT				
Calegory °	Citation of document, with indication, where appropriate, of the	elevant passages	Relevant to claim No.		
P,X	ECCLESTON M E ET AL: "Optical characteristics of responsive by co-polycondensation of tri-functions amino acids and Cy-3 bis-amine with a state of the co-polycondensation."	tional	1-152		
	diacylchlorides" POLYMER, ELSEVIER SCIENCE PUBLISHERS B.V, GB, vol. 45, no. 1, January 2004 (2004-01), pages 25-32, XP004479310 ISSN: 0032-3861 the whole document				
		<b>-/</b>			
X Funt	her documents are listed in the continuation of box C.	χ Patent family members are listed	l in annex.		
"A" docume consid "E" earlier of filing d		<ul> <li>To later document published after the in or priority date and not in conflict wit cited to understand the principle or tinvention</li> <li>Xoument of particular relevance; the cannot be considered novel or cannot be</li> </ul>	h the application but heory underlying the claimed invention		
which citation other r	ent which may throw doubts on priority claim(s) or is cited to establish the publication date of another n or other special reason (as specified) ent referring to an oral disclosure, use, exhibition or means ent published prior to the international filling date but an the priority date claimed	involve an inventive step when the document is taken alone  "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu- ments, such combination being obvious to a person skilled in the art.  "&" document member of the same patent family			
Date of the	actual completion of the international search	Date of mailing of the international se	earch report		
5	April 2004	26/04/2004			
Name and r	mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer  Villa Riva, A			

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Category *	ation) DOCUMENTS CONSIDERED TO BE RELEVANT  Cliation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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X	ECCLESTON M E ET AL: "pH-responsive pseudo-peptides for cell membrane disruption" JOURNAL OF CONTROLLED RELEASE, ELSEVIER SCIENCE PUBLISHERS B.V. AMSTERDAM, NL, vol. 69, no. 2, 3 November 2000 (2000-11-03), pages 297-307, XP004237286 ISSN: 0168-3659 cited in the application abstract figures 4,5 page 306, Section 4. Conclusions	1-147
<b>X</b>	BOUDREAUX C J ET AL: "CONTROLLED ACTIVITY POLYMERS. XI HYDROLITIC RELEASE STUDIES OF HYDROPHILIC COPOLYMERS WITH LABILE ESTERS OF MODEL ALLELOPATHIC PHENOLS" JOURNAL OF CONTROLLED RELEASE, ELSEVIER SCIENCE PUBLISHERS B.V. AMSTERDAM, NL, vol. 44, no. 2/3, 17 February 1997 (1997-02-17), pages 185-194, XP000636958 ISSN: 0168-3659 abstract figure 2	141-144, 147
X	CHEE C K ET AL: "Fluorescence investigations of the thermally induced conformational transition of poly(N-isopropylacrylamide)" POLYMER, ELSEVIER SCIENCE PUBLISHERS B.V, GB, vol. 42, no. 12, June 2001 (2001-06), pages 5079-5087, XP004230971 ISSN: 0032-3861 abstract figure 6 pages 5086-5087, Section 4. Conclusions	141-144, 147
X	TONGE S R ET AL: "Responsive hydrophobically associating polymers: A review of structure and properties" ADVANCED DRUG DELIVERY REVIEWS, vol. 53, no. 1, 3 December 2001 (2001-12-03), pages 109-122, XP002276152 & ISSN: 0169-409X the whole document	1-152

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C.(Continua	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	<b>_1</b>		
Category °	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.	
K	WO 02/092554 A (BRAUN SERGE; MEYER OLIVIER (FR); HEISSLER DENIS (FR); TRANSGENE SA (F) 21 November 2002 (2002-11-21) page 5, lines 3-11 page 9, lines 1-20 page 30, lines 1-15 claims		1-152	
X .	US 5 948 878 A (BURGESS STEPHEN W ET AL) 7 September 1999 (1999-09-07) the whole document			
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ional application No. PCT/GB 03/05262

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Although claims $1-139$ , $146-152$ are directed to a method of treatment of the human/animal body or a diagnostic method, the search has been carried out and based on the alleged effects of the compound/composition.
2. X Claims Nos.: 1-152 (part) because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
see FURTHER INFORMATION sheet PCT/ISA/210
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This international Searching Authority found multiple inventions in this international application, as follows:
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this international Search Report is restricted to the invention first mentioned in the claims, it is covered by claims Nos.:
Remark on Protest  The additional search fees were accompanied by the applicant's protest.
No protest accompanied the payment of additional search fees.

#### FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.1

Although claims 1-139, 146-152 are directed to a method of treatment of the human/animal body or a diagnostic method, the search has been carried out and based on the alleged effects of the compound/composition.

Continuation of Box I.2

Claims Nos.: 1-152 (part)

Present claims 1-152 relate to a method or compounds defined by reference to a desirable characteristic or property, namely the hypercoiling capability of the polymers. The claims cover all methods and compounds having this characteristic or property (in fact all peptides belong to this category), whereas the application provides support within the meaning of Article 6 PCT and/or disclosure within the meaning of Article 5 PCT for only a very limited number of such products/compounds/methods/apparatus. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Independent of the above reasoning, the claims also lack clarity (Article 6 PCT). An attempt is made to define the method sor compounds by reference to a result to be achieved. The search has been carried out for those parts of the claims which appear to be clear, supported and disclosed, namely those parts relating to the compounds mentioned also in Eccleston et al., J.Controlled Release 69,297 (2000), and to the general concept of drug carrier polymers which react to e.g. pH or temperature changes by changing the conformation.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.

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Patent document cited in search report		Publication date		Patent family member(s)	Publication date
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